



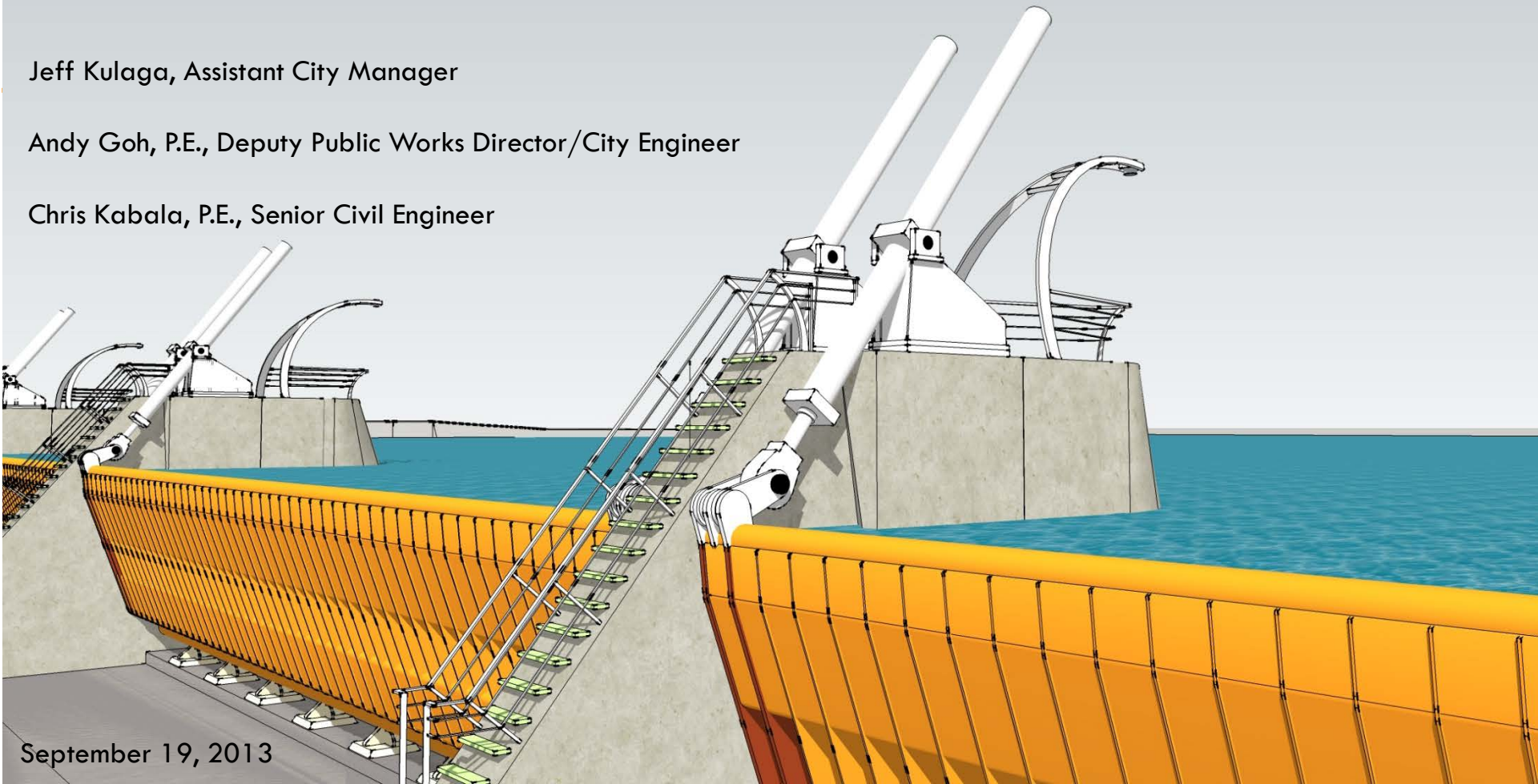
Tempe Town Lake Downstream Dam Replacement

PROJECT UPDATE

Jeff Kulaga, Assistant City Manager

Andy Goh, P.E., Deputy Public Works Director/City Engineer

Chris Kabala, P.E., Senior Civil Engineer



September 19, 2013

Timeline *

- ☑ Alternatives Evaluation – June thru November, 2011
- ☑ Phase 1 Validate Concept & Select Dam Technology – January 2012
- ☑ Project Update with Council – January 2012
- ☐ **Phase 2 Design Steel Dam / Acquire Permits – March 2012 - April 2014**
- ☐ **Bid and Procure Steel Gate Fabricator – September 19, 2013**
- ☐ Procure Construction Contract - October 2013
- ☐ Start of Steel Gate Fabrication – January 2014
- ☐ Start Construction/ SBI Relocation, Excavation for Foundation - April 2014
- ☐ Construction Complete – December 28, 2015

* *Per current agreement with Bridgestone.*

Regulatory Conditions



**US Army Corps
of Engineers®**



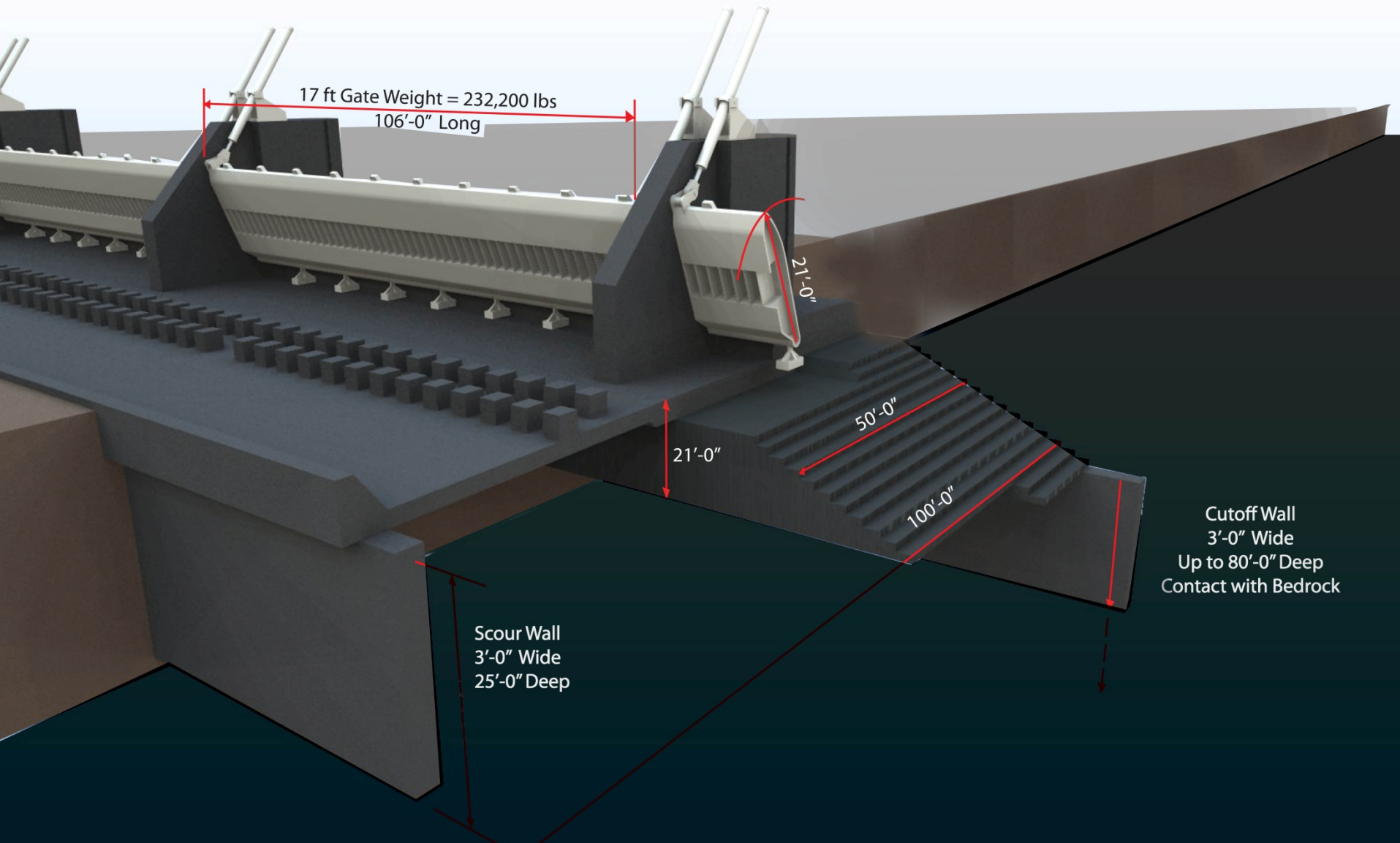
FEMA



**ARIZONA
DEPARTMENT
OF WATER
RESOURCES**

Regulatory Agency	Concerns
U. S. Army Corps of Engineers	Water quality, channel conditions, 404 permitting
Flood Control District of Maricopa County	Flood control, levee maintenance
Federal Emergency Management Agency (FEMA)	Flood control, levees
Arizona Department of Water Resources	Dam Safety

Tempe Town Lake Downstream Dam



Tempe Town Lake Downstream Dam Factoids

- ❑ **47,000 Cubic Yards of concrete** (Volume of over 6 City Hall Pyramids)
- ❑ **7 - Reinforced Concrete Piers** (9 ft wide, 45 ft long and 30 ft tall)
- ❑ **8 - 106 ft long Steel Gates** (232,000 lb. each equivalent to the weight of one bridge span of TTL Pedestrian Bridge)
- ❑ **16 - Hydraulic Cylinders** (27 ft long)
- ❑ **Total Project Cost \$40.7 M** (includes \$12.4 M for the Steel Gates)

Relocation of the 108" Storm Drain

